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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/805,919	10/805,919 03/22/2004		Stanley T. Crooke	ISPH-0522US.D2	2512	
27180	27180 7590 07/24/2006			EXAMINER		
ISIS PHARMACEUTICALS INC 1896 RUTHERFORD RD. CARLSBAD, CA 92008				MCGARR	MCGARRY, SEAN	
				ART UNIT	PAPER NUMBER	
				1635		
				DATE MAILED: 07/24/2000	DATE MAILED: 07/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date \_

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other:

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, 18-24, 29-47, 52-59 and 76, drawn to a method of modulating RNA interference/processing in a cell or tissue via contacting the cell or tissue with a human RNase III polypeptide, classifiable in class 514, subclass 2.
- II. Claims 1-63 and 76, drawn to a method of modulating RNA interference/processing in a cell or tissue via contacting the cell or tissue with an oligomeric compound targeted to a nucleic acid encoding human RNase III polypeptide, classifiable in class 514, subclass 44.
- III. Claims 64-75, drawn to a method of modulating RNA translocation in a cell via the administration of a modulator effective to modulate RNA translocation, classifiable in class 514, subclass 1.

## Group I-III are further restricted below.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are directed to related methods of modulating RNA interference/processing. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not

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obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the different methods have different modes of action and different effects. The invention of group I, for example uses a polypeptide that is administered to a cell or tissue where the action of the polypeptide is to inhibit the expression of a targeted RNA. The method of group II involves the administration of an oligomeric compound that would inhibit an RNase III activity which would result in less inhibition of an RNA, for example.

The invention of Group III is not clear since there are no recited inhibitors that inhibit translocation of an RNA. The compounds recited in the dependent claims have no antecedent basis and the examiner can not make a clear analysis of the invention of Group III.

## Groups I-III are further restricted as follows:

Pursuant to 35 U.S.C. 121 and 37 C.F.R. 1.141, the methods that use the antisense sequences listed in claims 12, 26, 49, 61 and 73 are subject to restriction. The Commissioner has partially waived the requirements of 37 C.F.R. 1.141 and will permit a reasonable number of such nucleotide sequences to be claimed in a single application. Under this policy, up to 10 of independent and distinct nucleotide sequences will be examined in a single application. (see MPEP 803.04 and 2434).

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If the members of the Markush group are sufficiently few in number or so closely related that a search and examination of the entire claim can be made without serious burden, the examiner must examine all the members of the Markush group in the claim on the merits, even though they are directed to independent and distinct inventions. In such a case, the examiner will not follow the procedure described below and will not require restriction. Since the decisions in In re Weber, 580 F.2d 455, 198 USPQ 328 (CCPA 1978) and In re Haas, 580 F.2d 461, 198 USPQ 334 (CCPA 1978), it is improper for the Office to refuse to examine that which applicants regard as their invention, unless the subject matter in a claim lacks unity of invention. In re Harnish, 631 F.2d 716, 206 USPQ 300 (CCPA 1980); and Ex parte Hozumi, 3 USPQ2d 1059 (Bd. Pat. App. & Int. 1984). Broadly, unity of invention exists where compounds included within a Markush group (1) share a common utility, and (2) share a substantial structural feature disclosed as being essential to that utility.

Claims 12, 26, 49, 61 and 73 specifically recites antisense by SEQ ID NOS for use in the claimed methods, where each antisense is targeted to and modulates the expression of an RNase III encoding nucleic acid. Although the antisense sequences claimed each target and modulate expression of the same nucleic acid, the instant antisense sequences are considered to be unrelated, since each antisense sequence claimed is structurally and functionally independent and distinct for the following reasons: each

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antisense sequence has a unique nucleotide sequence, each antisense sequence targets a different and specific region of the targeted nucleic acid, and each antisense, upon binding to its target, functionally modulates (increases or decreases) the expression of the gene and to varying degree (see Table 1 of the specification, for example).

Applicant should point out which region of claims 17, 28, 51, 63, and 75 the elected sequences target.

Furthermore, a search of more than one (1) of the antisense sequences claimed in the claims presents an undue burden on the Patent and Trademark Office due to the complex nature of the search and corresponding examination of more than one (1) of the claimed antisense sequences. In view of the foregoing, one (1) antisense sequence is considered to be a reasonable number of sequences for examination. Accordingly, applicants are required to elect one (1) antisense sequence.

Claim 76 link(s) inventions I and II. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 76. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 76. Claims 1, 18, 38, 55, and 64 link(s) inventions recited in claims 12, 26, 49, 61 and 73. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 12, 26, 49, 61 or 73, respectively. Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be

rejoined and fully examined for patentability in accordance with 37 CFR 1.104 Claims that require all the limitations of an allowable linking claim will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim(s) including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species: methods that require the modification of specified RNA types; rRNA, snRNA, snRNA, miRNA, or precursors thereof. The species are independent or distinct

because each of the RNA types would require different oligomeric modulators that would be specific to the RNA types.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean R. McGarry whose telephone number is (571) 272-0761. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean R McGarry Primary Examiner Art Unit 1635 Page 9